



Character

- ♦ 100A two sets of contacts switching capability
- Only impulse excitation needed, both for single and double coil.
- ♦ Low power consumption, small in size
- Custom assemblies available with flexible wire and/or copper straps,and/or with integrated shunt
- ♦ 4KV dielectric strength between coil and contacts
- ♦ RoHS compliant
- ♦ IEC62055-31 UC3 compliant
- ♦ Outline dimensions: (70 x 52 x 22) mm

Contact Data

Contact Form		2B		
Contact Material		AgSnO ₂		
Contact Resistance		$Max.1.0m\Omega$ (1A 6VDC)		
Rated Load(Resistive)		100A 250VAC		
Max.Switching Voltage		250VAC		
Max.Switchir	ng Current	100A		
Max.Switchir	ng Power	25000VA		
Service Life	Mechnical Endurance	1×10 ⁵ OPS		
Service Life	Electrical Endurance	6×10 ³ OPS (100A 250VAC)		
	Electrical Endurance	1×10 ⁴ OPS (80A 250VAC)		
Max.Short-circuit Current		3000A/10ms		
		6000A/10ms(no explosion)		

Characteristics

Operate Time		40ms Max.
Release Time		40ms Max.
Insulation Resistance (500VDC)		1000MΩ Min.
Dielectric Strength (50/60hz, 1min)	Contact to Coil	4000VAC
	Across Open Contacts	2000VAC
	Contact to contact	4000VAC
Surge Voltage (1.2/50 μ s)	Contact to Coil	6KV
Creepage Distance		8mm
Unit Weight		About 170g

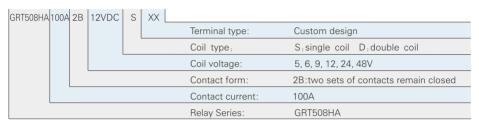
Environmental Data

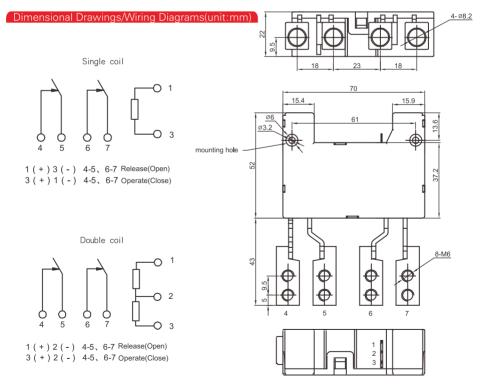
Ambient Temperature	−40°C ~+85°C Relativ		umidity	5%-85% RH	
Vibration	10-55Hz 1.5mm	Shock	Functional	98m/s²	
VIDIALIOII	10 33112 1.311111	SHOCK	Survival	980m/s ²	

Coil Data (20°C)

Coil Voltage	Coil Resistance(Ω)±10% Coil Power(w)			Operating Releasing		Allowing	Pulse	
(VDC)	Single	Double	Single	Double	Voltage (VDC)	Voltage (VDC)	voltage (VDC)	Duration (ms)
□ 9	20.3	10.1/10.1			≤6.3	≤6.3	13.5	
□ 12	36	18/18	4.0	8.0	≤8.4	≤8.4	18	≥100
□ 24	144	72/72	1.0	0.0	≤16.8	≤16.8	36	> 100
□ 48	576	288/288			≤33.6	≤33.6	72	

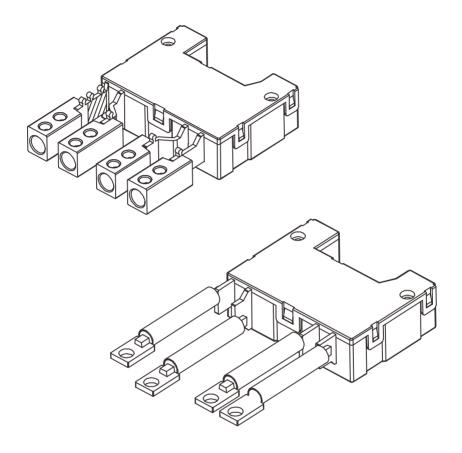
Ordering information





Note: No tolerance marked. If dimension ≤ 1 mm, the tolerance is ± 0.2 mm; if dimension 1-5mm, the tolerance is ± 0.3 mm; if dimension ≥ 5 mm, the tolerance is ± 0.5 mm.

Typical Terminal Type



Typical application

●Smart Meter ●Electric Remote Control ●Electrical Leakage Protector



Notes:

- 1. The factory defaults of relay contacts is set to be closed (reset state), however, due to the transportation or installation, contacts may be impacted, and change its state, so it is necessary to take action to reset before usage (access to power)
- 2.To be sure latching relay operating reliably, the excitation voltage to coil is to be attained rating, the setting of pulse width should be more than rating, long time (more than 1 min) applied voltage to coil is not acceptable
- 3.PCB type latching relay, suggested welding temperature is $240^{\circ}\text{C}-260^{\circ}\text{C}$, time is 2S-5S. Please do not adopt reflow soldering. Normally, the temperature for wave soldering is required 250°C and time is $\leq 2\text{S}$.
- 4.Latching relay which is without copper braided wires, the load leading pin can neither be tin soldered nor be wrenched. Don't do any extra force to load
- 5. When screws or bolt is used for load leading terminal of latching relay, please be sure to connect tightly, in case of any damage or the other safety accident causing by over temperature rise.
- 6. Due to limited signal wire strength of coil or shunts, do not twist or pull the signal wire, it is easy to get it broken.
- 7.Please handle gently when doing coming inspection and usage, preventing falling to impact the parameters. Distinguish the product which needs destructive inspection with normal products when entering to the factory, forbidding using it.

Statement:

Product specification brochure is for reference only. GRT can't ensure relays meet all performance parameters in each specific application field.

Customers should choose the right products as per according to specific using conditions.